

Desktop Installation Assistant Getting Started

Runtime Component System for OS/390 and z/OS 1.1
System Explorer for z/OS 1.1

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CD Contents

The product CD contains the following files:

- Desktop Installation Assistant
- product machine-readable installation material
- Java™ 2 Platform, Standard Edition (J2SE) JRE 1.3.1_05
- product documentation (located in the \doc directory)
- Adobe Acrobat Reader 4

About This Guide

This guide provides information about using the Desktop Installation Assistant, including installation requirements. The Desktop Installation Assistant is a wizard that is used to install and configure the Runtime Component System (RTCS) and RTCS-based products for OS/390 and z/OS.

The Desktop Installation Assistant

- customizes the job streams that are necessary to
 - install RTCS and RTCS-based products by using SMP/E
 - configure an MVS image to be able to start and execute RTCS and RTCS-based products
- optionally submits the customized jobs, retrieves their output, and checks them for successful completion

RTCS is an infrastructure that forms a basis for software development to use modern enterprise servers and the OS/390 and z/OS system facilities. RTCS is designed to simplify product installation and configuration. When RTCS is running on an MVS image, most RTCS-based products can be installed by populating the target libraries and running a job, or by entering an RTCS command that directs RTCS to discover and configure the newly installed RTCS-based products.

Note: For an RTCS-based product to execute successfully, RTCS must be active on your system.

Related Documentation

In addition to this book and the online Help, you can find useful information about RTCS in the resources that are listed in Table 1. These resources are included on the product CD in the \doc directory. You can access these files directly or by clicking **Documentation** on the CD startup menu. Documentation for RTCS-based products might also be included on the CD.

Table 1 Related Documentation

Document	Description
<i>Runtime Component System Message Reference</i>	online reference that contains information about messages that are generated by RTCS
<i>Runtime Component System Configuration and Administration Guide</i>	guide that contains information about configuring an MVS system for RTCS and configuring RTCS and RTCS-based product options

Preparation

This section provides information about the requirements for successful installation and configuration of RTCS and RTCS-based products.

Desktop Installation Assistant Requirements

The following sections provide information about the requirements for the Desktop Installation Assistant.

System Requirements

The Desktop Installation Assistant requires a system with

- Microsoft Windows 95 or later
- Java Runtime Environment (JRE)
- CD drive
- an extranet or intranet LAN connection with end-to-end connectivity for a TCP/IP connection to the OS/390 or z/OS installation driver system

Java Runtime Environment Requirements

The JRE must be installed on the workstation on which you will be running the Desktop Installation Assistant. Most Windows workstations already have a JRE installed.

The Java 2 Platform, Standard Edition (J2SE) JRE 1.3.1_05 is provided on the product CD if you need to install a JRE. For more information about installing J2SE 1.3.1_05 from the product CD, see “Installation” on page 14.

Warning! When you install the JRE, do not allow the JRE to become the default Java engine for Microsoft Internet Explorer’s handling of ordinary internet applets. Doing so frequently results in a significant decrease in performance or problems with other Java applications. The JRE installation program gives you the opportunity to choose this option, and the JRE will become the default Java engine if you do not explicitly take action.

User Requirements

The following sections provide information about the user requirements for installing and configuring RTCS and RTCS-based products.

In the following sections:

- *Driving system* refers to the system (MVS image) to which you connect with TCP/IP.
- *Driver system* refers to the system on which you execute the SMP/E installation job stream.
- *Target system* refers to the system on which you execute the configuration job stream and run RTCS and RTCS-based products.

Using the Desktop Installation Assistant

To use the Desktop Installation Assistant, you need to know how your site is set up. This information includes

- UNIT names, SMS storage groups, and STORCLAS for DASD devices
- the DASD volumes (VOLSERs) on which it is appropriate to allocate SMP/E distribution and target libraries and production copies of MVS image-specific product data sets
- JOB statement JCL and JECL requirements and conventions, including account code, execution JOB CLASS, MSGCLASS, HELD SYSOUT CLASS, and so on
- the maintenance environment (such as new or existing SMP/E CSI and zones) into which you should install RTCS and RTCS-based products
- how your MVS communication server (TCP/IP) is set up and used (for example, what ports might be available for use by RTCS-based products)
- how to connect to a driving system from a workstation by using TCP/IP and your intranet or extranet connection
- the data set naming conventions used for SMP/E distribution and target zone data sets and production MVS image program product data sets

Installing RTCS and RTCS-Based Products

To install RTCS and RTCS-based products, you need

- access (including a valid user ID and password) to the driving system and the driver system
- access to the data set names that you will use
- access to the existing SMP/E data sets if you are installing into an existing SMP/E environment
- authority to allocate and write into distribution and target libraries that follow the naming convention for the existing or new SMP/E environment

Configuring an MVS Image to Run RTCS

To configure an MVS image to run RTCS, you need

- access (including a valid user ID and password) to the driving system and the target system
- update access to SYS1.PARMLIB (or an MVS logical PARMLIB data set if you have set up the MVS images in your sysplex to use the MVS logical PARMLIB facility)

- update access to SYS1.PROCLIB or a started task (STC) procedure library that is defined in the IEFPROC DD statement in the Master Scheduler JCL

The IEFPROC DD statement might have been customized on the MVS image on which you intend to run RTCS. If so, you may use any procedure library that is concatenated there.

- update access to a JES-managed STC procedure library
- update access to the master catalog or ICF catalog in which the following, potentially MVS image-specific, data sets will be cataloged:
 - production copies of the three run-time product data sets
 - RTCS System Registry VSAM linear data set (LDS) cluster
 - Product Authorization Table Library

A dedicated VSAM LDS must be allocated for each target MVS image.

BMC Software recommends that these data sets be cataloged in the MVS image's master catalog. You may catalog them in an ICF catalog if you understand the implications of taking that action.

- the ability to issue operator commands, such as SETPROG, SET, START, STOP, and MODIFY

If you do not have write access to the necessary data sets, you may still use the Desktop Installation Assistant to install the product libraries on your system. The Desktop Installation Assistant can be used to generate the job stream that contains embedded instructions for your system programmer to complete the installation.

Configuring an MVS Image to Run an RTCS-Based Product

To configure an MVS image to run an RTCS-based product, you need ALTER, ALLOC, or CREATE access—as appropriate for your external security manager (ESM)—to the RTCS System Registry VSAM LDS cluster.

Controlling an RTCS-Based Product on an MVS Image

To start, stop, and control an RTCS-based product on an MVS image, you need the ability to issue operator commands, such as START, STOP, and MODIFY.

Hardware Requirements

The following sections provide information about the hardware requirements for RTCS and RTCS-based products.

For DASD storage requirements, see the *Runtime Component System for OS/390 and z/OS Release Notes*.

Processor Type Requirements

RTCS uses ESA/390[®] architectural enhancements, which are implemented on certain IBM S/390 servers. Accordingly, RTCS requires an IBM Architectural Level Set 1 (ALS-1)-capable processor (that is, a processor that is capable of running OS/390 V2R10). The IBM Architectural Level Sets for OS/390 V2R10 and z/OS V1R1 were announced in the following IBM letters:

- IBM Software Announcement 299-042 February 22, 1999
- IBM Software Announcement 200-030 February 29, 2000

For additional information about the ALS-1 architectural enhancements that are required for RTCS and OS/390 V2R10, visit the following URLs:

- **<http://www.ibm.com/s390/os390/plug.html>**
- **<http://www-1.ibm.com/servers/s390/os390/plug.html>**

The following IBM servers have the ALS-1 architectural enhancements:

- S/390 Parallel Enterprise Server[®] ("G2" and later models only)
- S/390 Multiprise[®] (all models)
- PC Server S/390 (all models)
- RS/6000[®] with S/390 Server-on-Board models
- S/390 Integrated Server (all models)

Software Requirements

The following sections provide information about the software requirements for RTCS and RTCS-based products.

For OS/390 and z/OS maintenance requirements, see the *Runtime Component System for OS/390 and z/OS Release Notes*.

Operating System and Related Software Requirements

Table 2 provides information about the required version for OS/390 or z/OS operating systems and for the TCP/IP communications server. TCP/IP is used for desktop-to-server communication and must be configured and started prior to starting an RTCS Generalized Server (product) address space.

Table 2 Operating Systems and Related Software

Software	Version
OS/390	2.10 or later
z/OS	1.1 or later
TCP/IP (communications server)	the level corresponding to the underlying OS/390 or z/OS release on which RTCS is being used

Your DFSMS configuration must support the allocation of PDSE libraries on non-SMS-managed DASD volumes. SMP/E distribution and target libraries can be SMS-managed, but the product libraries that are used in production are normally not SMS-managed. RTCS and RTCS-based products require the allocation of PDSE data sets (DSNTYPE=LIBRARY) for the program object and the hypertext document libraries.

External Security Manager Release Requirements

RACF is the only currently supported ESM. RTCS requires the release that is integrated with OS/390 or z/OS because RACF cannot be installed independently of the MVS Base Control Program (BCP).

System Requirements

The MAXCAD parameter in member IEASYSxx of SYS1.PARMLIB specifies the maximum number of SCOPE=COMMON data spaces that will be available for the life of the IPL. The RTCS subsystem requires two SCOPE=COMMON data spaces. If you have difficulty starting RTCS because no SCOPE=COMMON data spaces are available, increase the value of the MAXCAD parameter and IPL the MVS image.

Preinstallation Checklist

Use Table 3 to gather information that will be requested during the installation and configuration process. By gathering this information prior to starting the Desktop Installation Assistant, you can proceed through the process faster.

Table 3 Preinstallation Checklist

Information	Done?
user ID and password for the driving system, the driver system, and the target system (if different)	
DNS host name or IP address of the driving and target systems	
account code to be used on JOB JCL statements	
UNIT name and VOLSER of a non-SMS-managed DASD volume with approximately 175 cylinders of available space	
either the SMS storage class of a volume group or the UNIT name and VOLSER of a non-SMS-managed DASD volume. The volume group or DASD volume should have approximately 200 cylinders of available space.	
CPU authorization password and CPUID, which is needed to authorize execution on your CPU, for each RTCS-based product that you install	

Installation

Installation consists of making the machine-readable material available on the mainframe and creating the SMP/E distribution and target libraries on the mainframe DASD volumes. These tasks are performed by the Desktop Installation Assistant that is contained on the product CD. You need to install RTCS and RTCS-based products only once.

The installation process creates the SMP/E distribution data sets and target data sets that can be used to apply regular maintenance and any individual problem fixes (for example, APAR ZAPs). These data sets can be logically shared by all MVS images, even if the data sets are not physically used to run RTCS.

Run the Desktop Installation Assistant by performing the following steps:

1. Read the following guides, which contain information that you will need to know during the installation and configuration process:
 - release notes
 - this guide
 - *Runtime Component System Configuration and Administration Guide*
 - product-specific documentation
2. Insert the product CD into the CD drive.

The setup program should automatically start and display a startup screen.

Note: If the setup program does not automatically start when the CD is inserted, browse the product CD contents and double-click the **start.exe** file in the root directory.

3. *(optional)* If you do not have a JRE installed, click **Install JRE** to install the Java 2 Runtime Environment (JRE) on the workstation.

For more information about JRE requirements, see “Java Runtime Environment Requirements” on page 4.

4. When you have a JRE installed, click **Start Desktop Installation Assistant**.
5. Enter information on each screen as needed.

You are stepped through the installation process and prompted for the data that is needed to install the product on the driver system. Use the instructions that are provided on each screen to determine the data that should be entered in each field.

6. After the installation process is complete, use the Desktop Installation Assistant to configure the individual MVS images on which you intend to run your RTCS-based products. For more information about configuration, see “Configuration” on page 16.

Configuration

Each MVS image must be configured to be able to run RTCS. Each MVS image requires a dedicated VSAM LDS for the RTCS System Registry, even if the program libraries that are required by RTCS and related products are shared by more than one MVS image. For more information, see the *Runtime Component System Configuration and Administration Guide*.

An MVS image may be configured by using the Desktop Installation Assistant or by following the instructions in the *Runtime Component System Configuration and Administration Guide*.

If you use the Desktop Installation Assistant, you are stepped through the configuration process and prompted for the data that is needed to configure each MVS image. Use the instructions that are provided on each screen to determine the data that should be entered in each field.

During the configuration process, you will do the following tasks by using the Desktop Installation Assistant:

- configure an MVS target system to execute RTCS
- start RTCS on the target MVS image
- make any MVS or automation package configurations that are necessary to ensure that RTCS and related products will start automatically at each IPL, if you choose

- use the RTCS Registry Import Utility to initialize the RTCS System Registry (in effect, defining the RTCS-based products to RTCS)

Note: To initialize the RTCS System Registry by using the RTCS Registry Import Utility, you need alter access authority to the VSAM LDS cluster that is allocated to the primary RTCS System Registry partition.

When configuration has been completed, RTCS-based products will be able to execute on that MVS image.

Product Libraries

Table 4 lists the SMP/E distribution and target libraries that are allocated (if necessary) and updated during product installation.

Table 4 Distribution and Target Libraries (Part 1 of 2)

Distribution Library	Target Library
AOSZRTCS	TOSZRTCS
AOSZLINK	TOSZLINK
AOSZHTML	TOSZHTML
AOSZRXML	TOSZRXML

Table 4 Distribution and Target Libraries (Part 2 of 2)

Distribution Library	Target Library
AOSZCNTL	TOSZCNTL
AOSC70D	TOSZLINK

Starting RTCS

After you have completed the RTCS installation process and the MVS image configuration process, RTCS may be started; an IPL is not needed. You should configure MVS so that RTCS will be started automatically the next time that you IPL the system. RTCS must be running before you can start RTCS-based products.

Start RTCS by issuing an MVS operator **START** command. The specific command (that is, the PROC name) is determined during the configuration process. For more information about starting RTCS, see the *Runtime Component System Configuration and Administration Guide*.

Starting RTCS-Based Products

Refer to the product-specific documentation for information about how to start your specific RTCS-based product.

Notes

Customer Support

Access the BMC Software Web site at **<http://www.bmc.com>** to obtain information about the company, its products, corporate offices, special events, and career opportunities. In the United States and Canada, if you need technical support and do not have access to the Web, call 800 537 1813. Outside the United States and Canada, please contact your local support center for assistance. To find telephone and e-mail contact information for the BMC Software support center that services your location, refer to the Contact Customer Support section of the Support page on the BMC Software Web site at **www.bmc.com/support_home**.



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